

SUB C4  
A  
CONT

2. (Amended) The photocatalytic composition as claimed in claim 1, [characterized in that] wherein the binding agent consists [exclusively] essentially of an aqueous colloidal dispersion of [silicon dioxide (SiO<sub>2</sub>)] silica.

SUB D1

3. (Amended) The photocatalytic composition as claimed in claim 1, [characterized in that] wherein the photocatalyzing agent is anatase TiO<sub>2</sub>.

SUB C5

4. (Amended) The photocatalytic composition as claimed in claim 3, [characterized in that] wherein the diameter of the TiO<sub>2</sub> particles is between 10 and 30 nanometers.

00547650-100300

5. (Amended) The photocatalytic composition as claimed in claim 3, [characterized in that] comprising from 10 to 60 parts (as dry matter) of the aqueous colloidal dispersion of [silicon dioxide] silica, the balance to 100 parts consisting of TiO<sub>2</sub>.

6. (Amended) The photocatalytic composition as claimed in claim 5, [characterized in that it comprises] comprising 50 parts of titanium dioxide and 50 parts of the aqueous colloidal dispersion of [silicon dioxide] silica.

7. (Amended) The photocatalytic composition [as claimed in claimed in one of] according to claim 1, [characterized in that it furthermore includes] additionally comprising zeolites modified by metal ions capable of preventing the development of undesirable microorganisms and fungi.

SUB D1

8. (Amended) The photocatalytic composition as claimed in claim 1, [characterized in that it furthermore includes] additionally comprising active carbon.

SUB C6

9. (Amended) A process for manufacturing a photocatalytic composition as claimed in claim 1, [characterized in that, while stirring,] comprising mixing the

Sub C6  
A1  
cont

photocatalyzing agent [is mixed] into the inorganic binder while stirring until a homogeneous suspension is obtained.

10. (Amended) A process for manufacturing a photocatalytic composition as claimed in claim 7, [characterized in that, while stirring,] comprising mixing the photocatalyzing agent and the zeolites modified by metal ions [are mixed] while stirring into the inorganic binder until a homogeneous suspension is obtained.

Sub D1

11. (Amended) A process for manufacturing a photocatalytic composition as claimed in claim 8, [characterized in that, while stirring,] comprising mixing the photocatalyzing agent and the active carbon [are mixed] while stirring so as to obtain a homogeneous suspension.

A2

13. (Amended) A filtering medium comprising a support [coated on] having at least one [of its faces] surface coated with a layer [of] comprising the photocatalytic composition as claimed in claim 1.

14. (Amended) The filtering medium as claimed in claim 13, [characterized in that] wherein the support is a fibrous support.

15. (Amended) The filtering medium as claimed in claim 13, [characterized in that] wherein the support is an acoustic panel.

16. (Amended) The filtering medium as claimed in claim 13, [characterized in that when one of the faces of the support is coated with said photocatalytic composition, the other face] wherein a second surface of the support is coated with a second composition capable of eliminating odors, the second composition comprising a derivative of undecylenic acid.

17. (Amended) The filtering medium as claimed in claim 16, [characterized in that] wherein said second composition [furthermore includes] additionally comprises dioctyl sulfosuccinate capable of destroying mite-type insects.

18. (Amended) The filtering medium as claimed in claim 13, [characterized in that it furthermore includes] additionally comprising a prefilter [in the form of] comprising a support coated with [said] a second composition capable of eliminating odors, the second composition comprising a derivative of undecylenic acid.

19. (Amended) The filtering medium as claimed in claim 18, [characterized in that] wherein said second composition [furthermore includes] additionally comprises dioctyl sulfosuccinate capable of destroying mite-type insects.

20. (Amended) A process for manufacturing a filtering medium as claimed in claim 13, [characterized in that] wherein the support is coated with the photocatalytic composition [as claimed in one of claims 1 to 8] in an amount ranging from 5 to 40 g/m<sup>2</sup> of TiO<sub>2</sub>.

21. (Amended) A process for manufacturing a filtering medium as claimed in [claims] claim 6 [or 18], [characterized in that] wherein said second composition is coated in an amount of 2 g/m<sup>2</sup> on the support.

Please add claims 24-27 as follows:

24. (New) A method for treating a fluid containing organic pollutants, said method comprising:

providing a photocatalytic composition according to claim 1;  
coating the photocatalytic composition on a support;

contacting the coated support with the fluid containing organic pollutants;  
and  
exposing the coated support to ultraviolet radiation;  
whereby organic pollutants contained in the fluid are degraded to carbon dioxide.

25. (New) A method according to claim 24 wherein the fluid is air.

26. (New) A method according to claim 24 wherein the fluid is a liquid effluent.

27. (New) A method according to claim 24 wherein the support is a fibrous support.

28. (New) A method according to claim 24 wherein the support is an acoustic panel.

### REMARKS

Claims 1-23, as amended, are pending in International Application WO 99/51345, which claims priority from French patent application 98.04401, filed April 3, 1998. The claims are amended herewith in order to bring the form thereof into compliance with the requirements of the U.S. Patent and Trademark Office and U.S. patent law and to clarify what is being claimed. New claims 24-27 relate to matter contained in canceled claims 12, 22 and 23. No new matter has been added.